## REMARKS

Applicant wishes to thank the Examiner for considering the present application. In the Final Office Action dated December 29, 2004, claims 1-10 are pending in the application. Applicant respectfully requests the Examiner for reconsideration of the claims.

The drawings stand objected to under 37 CFR §1.83. The drawings much show each feature of the invention specified in the claims. The Examiner states that "teleport station and 'user' must be shown or the feature(s) cancelled from the claim[s]." The Applicant has changed the teleport station building and the user terminal building into a box with the word teleport station and user terminal, respectively. Applicant believes that the changes to the drawings overcome this rejection. The drawing changes are submitted herewith.

Claims 1 and 3 stand rejected under 35 U.S.C. §103(a) as being unpatentable over *Adiwoso* (6,067,453). Applicant respectfully traverses.

Claim 1 is directed to a communication system that has a first teleport station, a first user, and a satellite that couples the first teleport station to the first user. A network access point is coupled to the Internet and the teleport station. The network access point is coupled to the teleport station through an optical fiber. On page 6 of the Final Office Action the Examiner states that the *Adiwoso* reference teaches an, "Internet access point coupled to the Internet (figure 1 (37)) and the first teleport station, said network access point coupled to the first teleport station through an optical fiber." The Examiner points to Col. 5, lines 1-5, for this teaching. Applicant disagrees with the Examiner's interpretation of this statement. The sentences the Examiner refers to begin on Col. 4, line 66 and states, "Additionally, gateway 30a may provide a high-speed, broadband connection that allows user terminals to access information available on the Internet. In the example of FIG. 1, this service is available via an Internet access point (IAP) 37 connection. Internet access point 37 may comprise a large fiber-optic cable ***link***

providing information access at an extremely high bandwidth (e.g., gigahertz)." (emphasis added). Applicant agrees that reference to a fiber-optic cable link is taught. Claim 1, however, recites that the network access point is coupled to the first teleport station through an optical fiber. The Internet access point 37 is referred to as a large fiber-optic cable link, but no teaching or suggestion is provided in *Adiwoso* for coupling the gateway 30 to the IAP 37 through an optical fiber. *Adiwoso* teaches a link to a fiber optic cable, but no teaching as to how the link if formed.

On page 6 of the Final Office Action, the Examiner states, "Furthermore, Adiwoso disclosed that the optical network which exists as part of the IAP (37) comprises an optical fiber. Since Figure 1, clearly shows that said IAP is connected to the satellite (30) is obvious to one of ordinary skill in the art at the time of invention that these two point could be connected with same fiber as fiber is extremely well known to connect communication end-points for high-speed data delivery." Applicant respectfully submits that this is speculation by the Examiner since there is no teaching whatsoever as to the connection between the two points. Although a high speed, broadband connection is described as being provided by gateway 30a, only a link to a fiber optic cable is taught or suggested.

On Page 3 of the Final Office Action, "In this case, it is not necessary that Adiwoso explicitly disclose the satellite (30) connected to the IAP (37) with fiber given the preceding disclosure. The examiner contends that it is clearly obvious to connect the two points with a fiber optic line given both what is extremely well known in the art and the explicit disclosure that the IAP comprises fiber optic connections and that the satellite comprises high-speed broadband connection (a.k.a. fiber). Then one of ordinary skill would connect two such high-speed connections together to form the connection as shown in Figure 1." Applicant admits that a fiber line exists as part of (37). However, no teaching or suggestion is provided for providing the fiber line to the connection of the two points. There are various methods for performing broadband coupling. Broadband may, for example, be performed using copper cable lines. Applicant, therefore,

respectfully submits that the Examiner's conclusion is using mere speculation to glean the elements of the present claims from the *Adiwoso* reference.

Applicant, therefore, respectfully requests the Examiner for reconsideration of claim 1.

Likewise, claim 3 is a further limitation of claim 1 and should be allowable for the same reasons set forth above.

Claim 2 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over *Adiwoso* in view of *Wiedeman* (6,160,994). Applicant respectfully traverses.

Claim 2 should be allowable for the same reasons set forth above. That is, the *Adiwoso* reference fails to teach that a teleport station is coupled to a network access point through an optical fiber. The teaching of *Wiedeman* is set forth for disclosing the use of Ka band. However, the *Wiedeman* reference does not teach coupling a first teleport station to a network access point through an optical fiber. Applicant therefore respectfully requests the Examiner to reconsider this rejection.

Claims 4-10 stand rejected under 35 USC § 103(a) as being unpatentable over *Adiwoso, et al.* (6,067,453) in view of *Acampora* (6,049,593). With respect to claim 4, a communication system is recited that includes a satellite, a first teleport station, an optical fiber network, and a second teleport station coupled to the first teleport station through the optical fiber network and the satellite. The optical fiber network provides a primary communication link until an irregularity is detected in the optical fiber, where, upon the sensing of the irregularity, the communication is routed from the first teleport station to the second teleport station through the satellite.

The Examiner admits that *Adiwoso* does not disclose the second teleport station through the first teleport station through the optical fiber network and the satellite; an optical fiber network providing a primary communication link until an irregularity is detected in the fiber optic cable, whereupon the sensing of the irregularity, routing the communication from the first teleport station to the second teleport station through the said satellite. The Examiner cites the *Acampora* reference for this teaching. Applicant respectfully submits that the *Acampora* reference does not teach or suggest the use of

satellites. The *Acampora* reference as set forth in column 1, lines 37-42, states, "In particular, the present invention will be seen to be concerned with how to connect the existing world communications 'backbone' which is, in America circa 1997, based primarily on wire and optical fiber lines, to the typical subscriber household and office – the so-called 'last mile' problem." The present application and claim 4 is directed to an entire system that uses satellites for communication therebetween. Last mile connection referred to in *Acampora* concerns coupling a network point to a user. Therefore, Applicant respectfully submits that the *Acampora* reference teaches away from such combination suggested by the Examiner since they are vastly different systems. Further, the *Acampora* reference does not teach substituting a satellite system for an optical fiber system. Applicant does admit that the system may use a wireless radio system, but this system is a terrestrial-based system. As pointed out by the Examiner, each link may be redundant and may be continually operated redundantly or the communication modes may be substituted for each other depending upon conditions such as atmospheric interference. The *Acampora* reference, however, as mentioned above, is a terrestrial-based system and does not teach or suggest the use of a satellite in place of an optical fiber. There is no motivation to modify *Acampora* in such a manner since it is dealing with only the last mile type of connection and not the overall system. Applicant, therefore, respectfully requests the Examiner to reconsider the rejection of claim 4.

Claim 5 is directed to a method of communicating between a first user in a first geographic region served by first satellite and a second user in a second geographic region by directing communications from a first user to the first satellite, routing the communication from the first satellite to a first teleport station, routing the communication from the first teleport station to a second teleport station in a second geographic region by way of an optical fiber network, and routing the communication from the second teleport station to a user in the second geographic region. The Examiner with respect to claim 5 states, "Adiwoso disclosed operation over diverse geographic regions." Applicant respectfully submits that the steps described above with respect to claim 5 are not taught or suggested in the *Adiwoso* or *Acampora* references. Although a

satellite and a gateway station is illustrated, no teaching or suggestion is provided for routing the communication from the first teleport station to the second teleport station in the second geographic region by way of an optical fiber network. Applicant therefore respectfully requests the Examiner for a reconsideration of claim 5.

Claims 6 and 7 are dependent upon claim 5 and recite that routing the communication from the second teleport station to the user in the second geographic region is respectively performed using an optical fiber or a second satellite. The *Wiedeman* reference also fails to teach or suggest such steps. Applicant therefore, respectfully requests the Examiner for reconsideration of claims 6 and 7.

Likewise, claim 8 is also dependent upon claim 5 and provides further limitations thereto. Applicant therefore respectfully requests the Examiner for a reconsideration of claim 8.

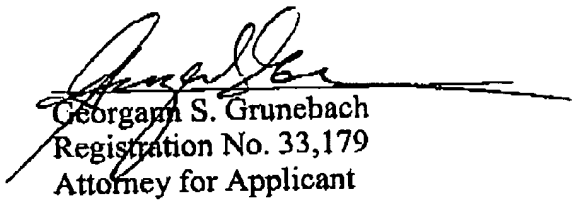
Claim 9 is also an independent claim directed to a method of operating a communication system. Claim 9 recites, "generating a plurality of spot beams directed to a respective plurality of teleport stations from a satellite, interconnecting the plurality of teleport stations with an optical communication network; in normal operating conditions, directing a communication from a first of said teleport stations through said satellite to a first user; and when the second teleport station is encumbered, directing the communications through an optical link." The Examiner points to Col. 8, lines 10-15. However, Applicant can find no suggestion in this passage for directing a communication from a first of said plurality of teleport stations through said satellite to a first user during normal operations and when the teleport station is encumbered, directing the communications through an optical link. Applicant respectfully requests the Examiner for a reconsideration of this rejection as well.

Further, claim 10 is a further limitation of claim 9 and should be allowable for the same reasons set forth above.

In light of the remarks above, Applicant submits that all objections and rejections are now overcome. The application is now in condition for allowance and expeditious

notice thereof is earnestly solicited. Should the Examiner have any questions or comments, the Examiner is respectfully requested to contact the undersigned attorney.

Respectfully submitted,



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